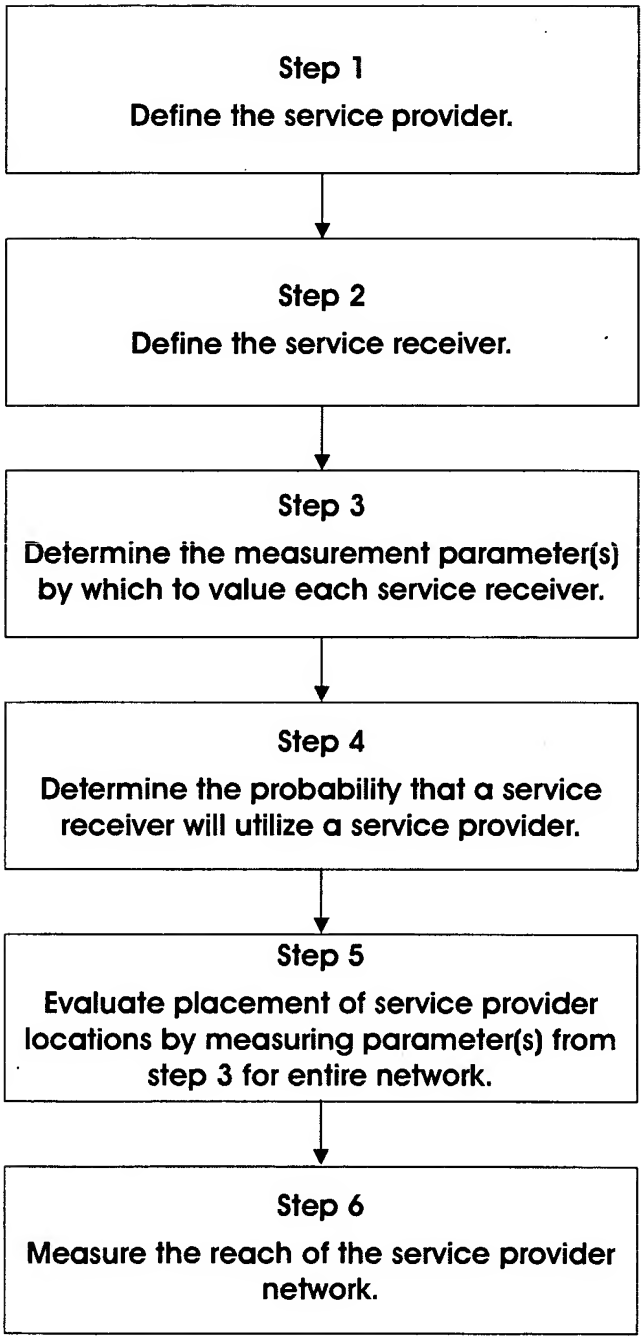

Step 1
Define the service provider.
Step 2
Define the service receiver.
Step 3
Determine the measurement parameter(s) by which to value each service receiver.
Step 4
Determine the probability that a service receiver will utilize a service provider.
Step 5
Evaluate placement of service provider locations by measuring parameter(s) from step 3 for entire network.
Step 6
Measure the reach of the service provider network.

Fig. 1

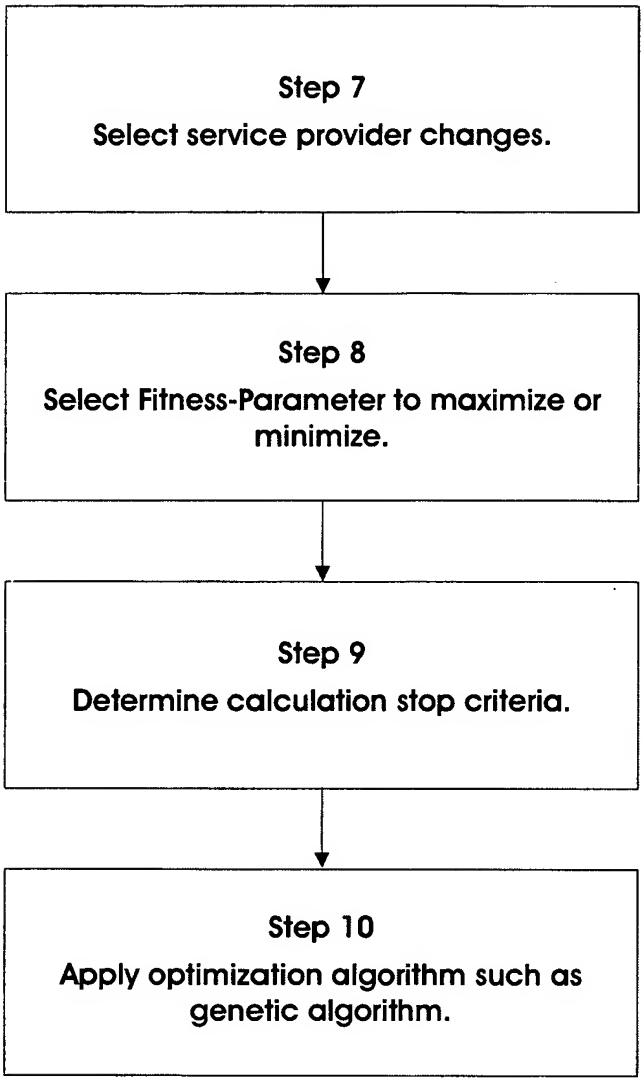

Step 7
Select service provider changes.
Step 8
Select Fitness-Parameter to maximize or minimize.
Step 9
Determine calculation stop criteria.
Step 10
Apply optimization algorithm such as genetic algorithm.

Fig. 2

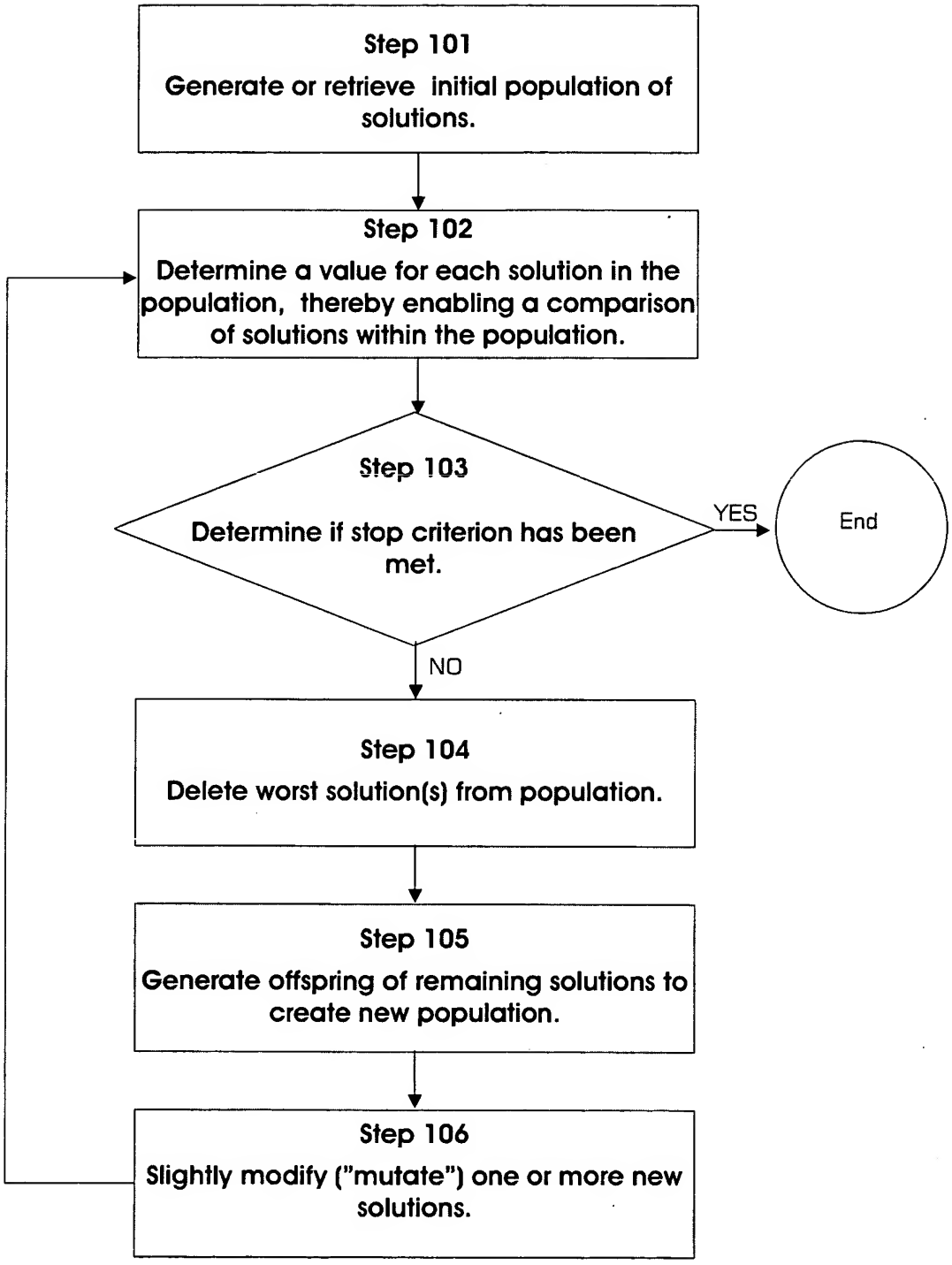
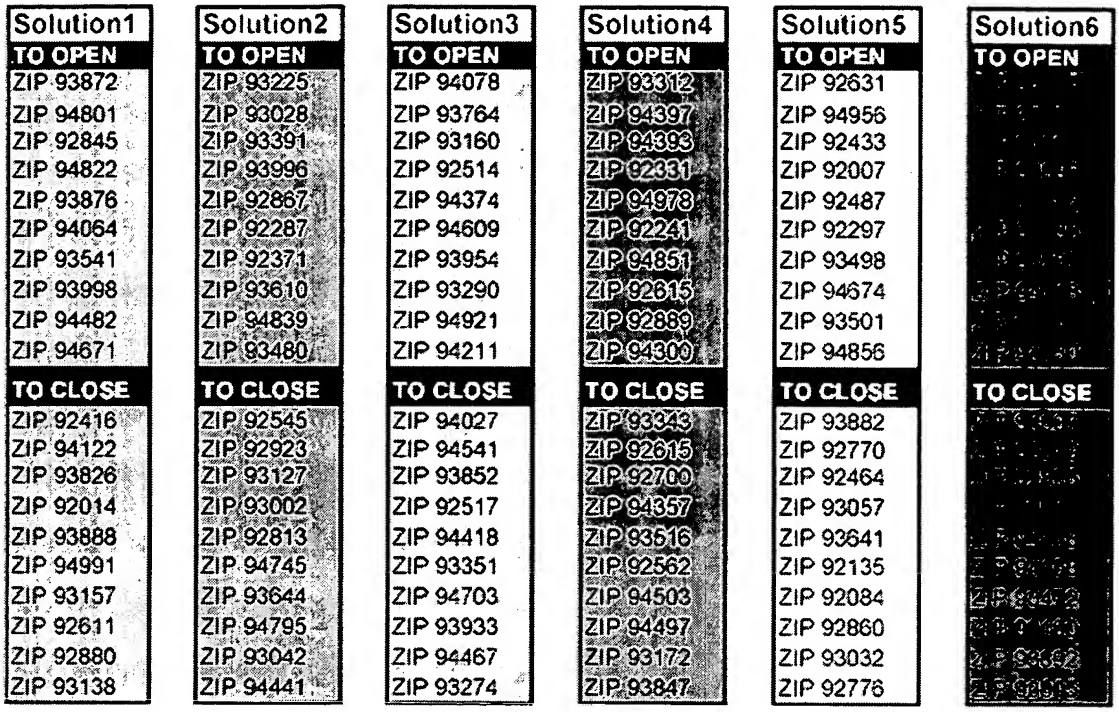

Step 101
Generate or retrieve initial population of solutions.
Step 102
Determine a value for each solution in the population, thereby enabling a comparison of solutions within the population.
Step 103
Determine if stop criterion has been met.
YES
End
NO
Step 104
Delete worst solution(s) from population.
Step 105
Generate offspring of remaining solutions to create new population.
Step 106
Slightly modify ("mutate") one or more new solutions.

Fig. 3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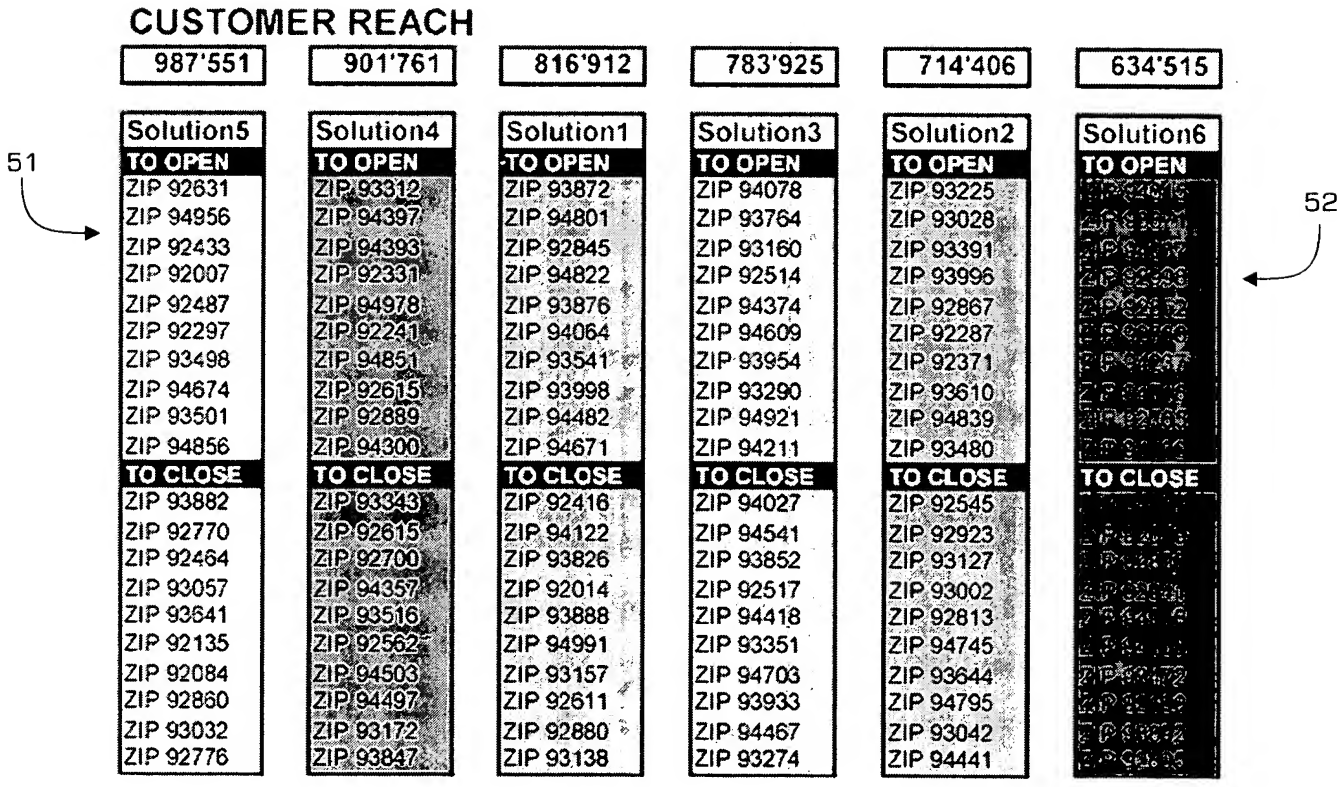
Solution6
TO OPEN
TO CLOSE

Fig. 4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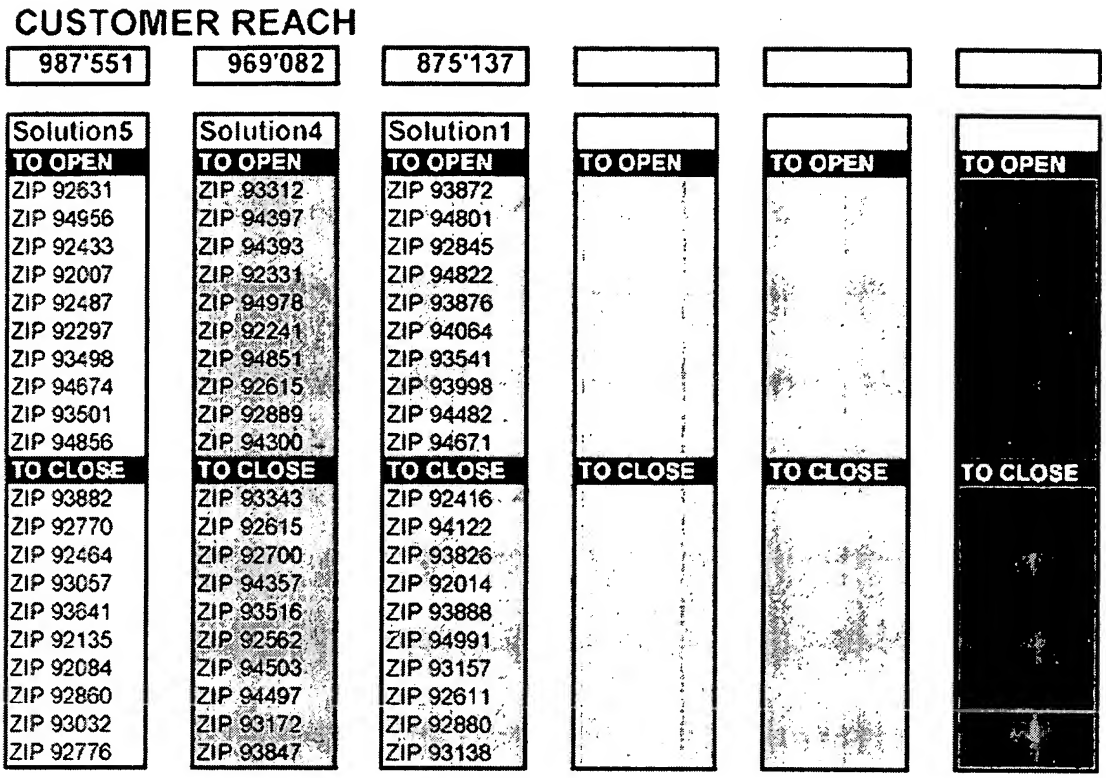
TO CLOSE

Fig. 5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TO CLOSE

Fig. 6

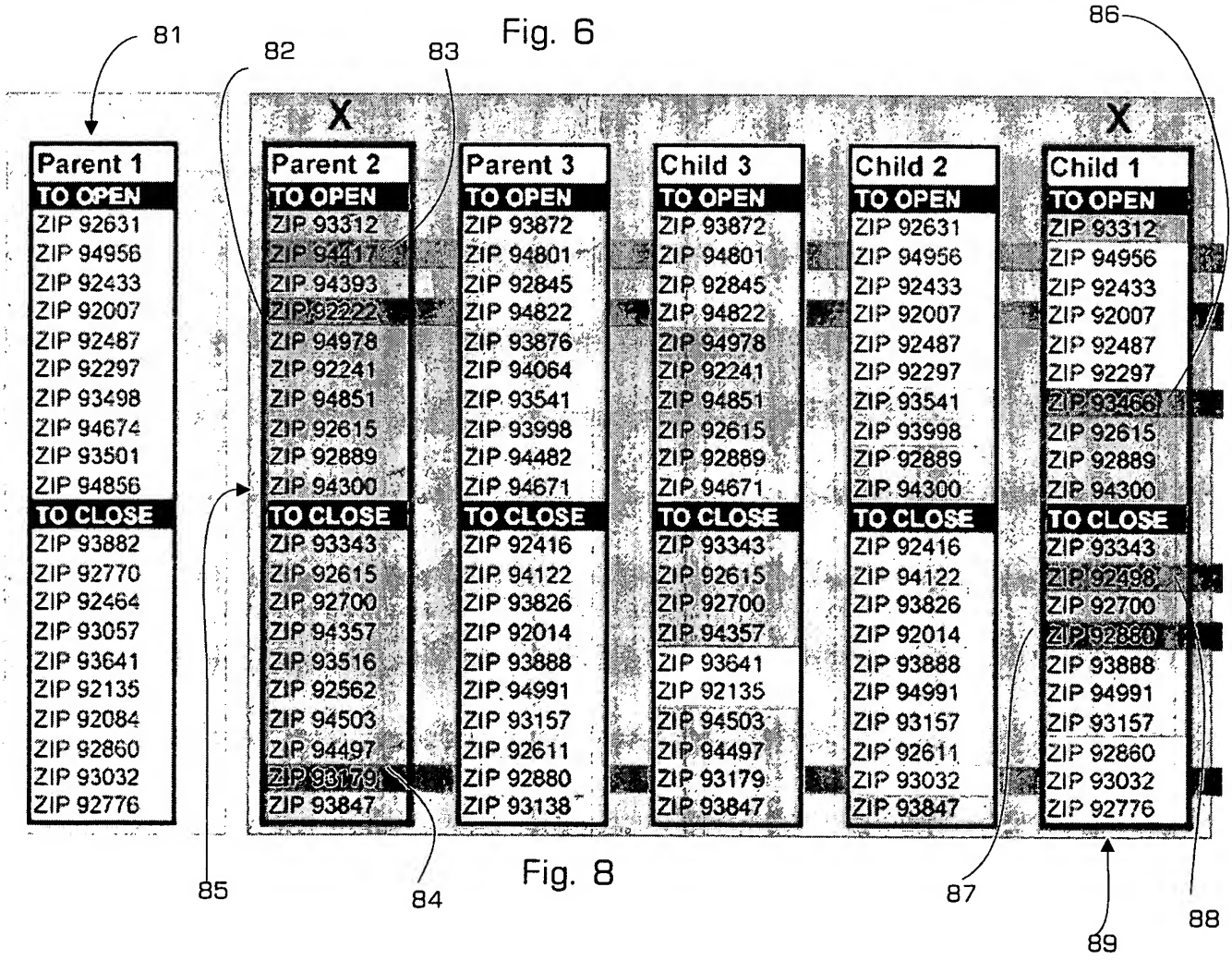
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Fig. 8

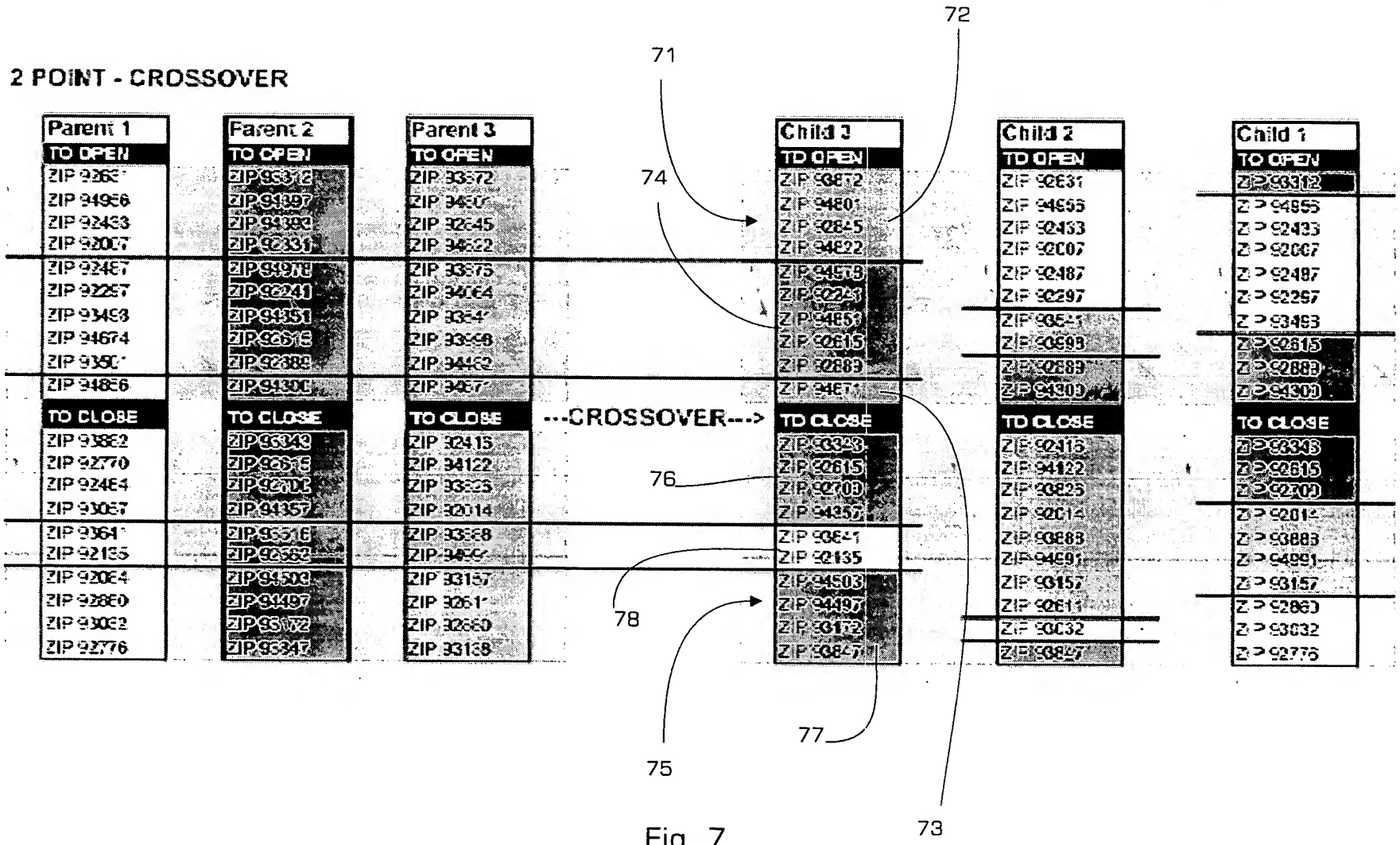
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Fig. 7